Index of Claims

| Application No. | Applicant(s)    |  |  |  |  |  |  |  |  |
|-----------------|-----------------|--|--|--|--|--|--|--|--|
| 10/088,884      | FRANK, R. KEITH |  |  |  |  |  |  |  |  |
| Examiner        | Art Unit        |  |  |  |  |  |  |  |  |
| Brian S Kwon    | 1614            |  |  |  |  |  |  |  |  |

| ′ | Rejected |   | (Through numeral)<br>Cancelled |
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| = | Allowed  | ÷ | Restricted                     |

| N | Non-Elected  |
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| ı | Interference |

| A | Appeal   |
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| 1   |          |  | 2   |   |   |             |            |          |  |       |  |          |                 |                    |          |          |              | П                  |          |                      |
| 1   | <u></u>  | <u>a</u>   | <b>3</b> /  | 1 1 1   |   |             | <u></u>    | ā        |  |       | <u>a</u>   | ā        |                 |                    |          |          |              |                    |          | .                    |
| 1   | Ë        | <u>:</u> <u>5</u>                                | <b>3</b>  |   |   |             | ا قبا      | <u>.</u> |  |       | .≝.  | <u>:</u> |                 |                    |          |          |              |                    | - 1      | .                    |
| 1   | 1        | Ιō   | 7   |   | 1 1 1   |             | ╙          | δl       |  |       | ╙  | ŏ        |                 |                    |          |          |              |                    | - 1      |                      |
| \$ 102   102   103   103   103   104   104   104   104   104   106   106   106   106   106   107   107   108   109  |          |  |   |   |   | La facilità |            |          |  |       |  |          |                 | ļ.,                |          |          |              | $\dashv$           |          | _                    |
| \$ 103  | /        | 1  | =   |   |   | 27.0.00     |            | 51       |  |       |  | 101      |                 |                    | l l      |          | l1           |                    |          | l                    |
| \$ 103  |          | 2  | T   |   |   |             |            | 52       |  |       |  | 102      |                 |                    |          |          |              | Т                  | П        |                      |
| \$\frac{4}{4}\$     \$\frac{5}{4}\$     \$\frac{104}{106}\$     \$\frac{105}{106}\$       \$\frac{7}{2}\$     \$\frac{5}{56}\$     \$\frac{106}{106}\$     \$\frac{106}{106}\$     \$\frac{1}{106}\$     \$\frac{1}{106}\$     \$\frac{1}{106}\$     \$\frac{1}{106}\$     \$\frac{1}{106}\$     \$\frac{1}{106}\$     \$\frac{1}{106}\$     \$\frac{1}{106}\$     \$\frac{1}{100}\$     \$\frac{1}{110}\$     \$\frac{1}{111}\$     \$\frac{1}{110}\$     \$\frac{1}{111}\$     \$\frac{1}{110}\$  |          | 1  |   | <del>                                      </del> | -1  |             |            | 53       |  | 1     |  | 103      |                 | 1                  |          | $\neg$   |              | $\neg$             | ᄀ        | $\neg$               |
| \$   105   106   106   106   106   106   106   106   106   106   107   107   107   107   107   107   107   107   107   107   108   109   10 | <b>-</b> | <del>                                     </del> | 1   | +++   |   |             |            | 54       | <del>                                     </del>   | 1     |  |          |                 | +                  |          | $\dashv$ | -            | $\dashv$           | $\dashv$ | $\dashv$             |
| 56  |          | 7  | +   | +++   |   |             |            | 55       | <del></del>  | -     | -  | 10T      |                 | ╫                  |          | $\dashv$ | $\vdash$     | $\dashv$           | $\dashv$ | $\dashv$             |
| 22  | ļ        | 1  | 44-   |   | +   |             |            |          | <del></del>  | -     |  | 100      | -               | +                  |          |          |              | $\rightarrow$      | $\dashv$ | $\dashv$             |
| S   |          | 6  |   | <del>                                     </del>  |   |             |            |          |  |       |  | 106      |                 |                    |          | _        | _            | _                  |          |                      |
| S   | 2        | 7  | =   |   |   |             |            | 57       |  |       |  | 107      |                 |                    |          |          |              |                    |          |                      |
| 10  |          | 8  | 7   |   |   |             |            | 58       |  |       |  | 108      |                 |                    |          | - 1      |              | . 1                |          |                      |
| 10  |          | 9  |   |   |   |             |            | 59       |  |       |  | 109      |                 | П                  |          |          |              | $\Box$             | $\neg$   | $\Box$               |
| 11  |          |  |   | <del>                                     </del>  | 1 1   |             |            | 60       |  |       |  | 110      |                 | 1-                 |          | $\neg$   |              | $\dashv$           | $\neg$   | $\neg$               |
| 12  |          |  |   | + + +   | <del>       </del>                                |             | $\vdash$   | 61       | <del>-                                      </del> | 1 11  |  | 111      |                 | +                  |          | $\dashv$ | H            | $\dashv$           | $\dashv$ | $\dashv$             |
| 13  |          |  | Н-  | +   |   |             |            |          | <del>┈╎┈╎┈╎┈╎┈╎┈┤┈┤┈┤</del>                        | -     |  | 112      | $\vdash$        | +-                 | $\vdash$ |          | $\vdash$     | $\dashv$           |          | $\dashv$             |
| 14  | <u> </u> |  | - -   | +   | +++   |             |            | 02       | <del></del>  | -     | <u> </u>   | 112      |                 | -                  |          |          | $\vdash$     |                    |          | $\dashv$             |
| 15  | L        |  | $\sqcup \! \! \perp$  | $\bot$  | $\perp \perp \perp$                               |             |            |          |  | 4     |  | 113      | <u> </u>        | <b>_</b>           |          |          |              |                    | _        |                      |
| 15  | L        | 14   |   |   |   |             |            | 64       |  |       |  | 114      |                 |                    |          |          |              | $oldsymbol{\perp}$ |          |                      |
| 16  |          | 15   |   |   |   |             |            | 65       |  |       |  | 115      |                 |                    |          |          |              | П                  |          |                      |
| 17  |          |  |   |   |   |             |            |          |  |       |  | 116      |                 | Т                  |          |          |              | $\neg$             |          |                      |
| 18  | $\vdash$ |  | +   | + + +   | <del>   -</del>                                   |             |            | 67       |  | 1     | М  | 117      | $\vdash$        |                    | Н        | $\Box$   |              | $\dashv$           | $\dashv$ |                      |
| 19  | <b> </b> |  | 1   | + + +   | <del>-   -   -</del>                              |             |            | 68       | <del></del>  | 1     |  | 118      | $\vdash$        | +                  | $\vdash$ | -        | -            |                    | $\dashv$ |                      |
| 120   | ļ        |  | _   | +   | +   |             |            | 00       |  | 4:::: | $\vdash$   |          |                 |                    |          |          |              | -                  | $\dashv$ |                      |
| 21     71     121     122     122     122     122     122     123     123     123     123     124     124     124     124     125     125     126     126     126     126     126     126     127     127     127     127     128     128     128     128     128     129     129     129     130     130     131     131     131     131     131     131     131     132     133     133     133     133     133     133     134     134     134     134     134     134     134     135     136     136     136     136     136     136     136     136     137     137     137     137     137     137     137     137     138     139     140     141     141     141     141     141     141     141     141     141     141     142     142     142     142     142     142     142     142   | <u> </u> |  |   |   |   |             |            | 09       |  | 4     |  | 119      |                 | 1                  |          |          |              |                    |          |                      |
| 22     72     122     123     123     123     124     124     124     124     124     125     125     125     125     125     126     126     126     127     127     127     127     128     128     128     129     129     129     130     130     130     131     131     131     131     131     131     132     133     134     134     134     134     134     134     134     134     134     135     135     135     135     135     135     135     135     136     137   |          | 20   |   |   |   |             |            | 70       |  |       |  | 120      |                 |                    | Ш        |          |              |                    | _        | -                    |
| 23   73   123     24   74   124     25   75   125     26   76   126     27   77   127     28   78   128     29   79   129     30   80   130     31   81   131     32   82   132     33   83   133     34   84   134     35   85   135     36   86   136     37   87   137     38   88   138     39   89   139     40   90   140     41   91   141     42   92   142     43   93   143     44   94   144     45   96   146     47   97   147   |          | 21   |   |   |   |             |            |          |  |       |  |          |                 |                    |          |          |              |                    |          |                      |
| 23     73     123     124     124     124     125     125     125     126     126     126     126     127     127     127     127     127     128     128     128     128     128     128     129     129     129     130     130     130     130     130     130     130     130     131     131     131     132     132     132     132     132     133     134     134     134     134     134     134     134     134     134     134     134     134     134     134     134     134     134     134     134   |          | 22   |   |   |   | 10.00       |            | 72       |  |       |  | 122      |                 |                    |          |          |              |                    |          |                      |
| 24     74     124       25     76     125       26     76     126       27     77     127       28     78     128       29     79     129       30     80     130       31     81     131       32     82     132       33     83     133       34     84     134       35     85     135       36     86     136       37     87     137       38     88     138       39     89     139       40     90     140       41     91     141       42     92     142       43     94     144       44     94     144       45     96     146       46     96     146       47     97     147   |          | 23   |   |   |   |             |            | 73       |  |       |  | 123      |                 |                    |          |          |              | П                  |          |                      |
| 25     75     125       26     76     126       27     77     127       28     78     128       29     79     129       30     80     130       31     81     131       32     82     132       33     83     133       34     84     134       35     85     135       36     86     136       37     87     137       38     88     138       39     89     139       40     90     140       41     91     141       42     92     142       43     93     143       44     94     144       45     95     145       46     96     146       47     97     147   | <u> </u> | 24   |   |   |   |             |            |          |  | 7     |  | 124      |                 | 1                  |          |          |              | $\Box$             |          |                      |
| 26     76     126     127     127     127     128     128     128     128     128     129     129     130     130     130     130     130     130     130     131     131     131     131     132     132     132     132     133     133     133     133     133     133     133     134     134     134     134     134     135     135     135     135     136     136     137     137     137     137     137     137     137     137     137     137     139     140     140     140     140     141     141     141     141     141     141     142     142     143     143     144     144     144     144     144     144     144     145     145     145     145     145     145     145     146     146     146     146     146     146     147     147     147     147     147     147   | <u> </u> |  |   | 1   | +   |             |            | 75       |  |       |  | 125      |                 | +                  |          |          | П            | 一                  | $\dashv$ | П                    |
| 27     78     127       28     78     128       29     79     129       30     80     130       31     81     131       32     82     132       33     83     133       34     84     134       35     85     135       36     86     136       37     87     137       38     88     138       39     89     139       40     90     140       41     91     141       42     92     142       43     93     143       44     94     144       45     95     146       46     96     146       47     97     147   |          | 25   | $\vdash$  | <del>                                     </del>  | <del>-     </del>                                 |             |            |          | <del></del>  |       |  | 126      |                 | ╁                  | $\vdash$ | $\dashv$ | Н            | -                  | $\dashv$ | $\vdash$             |
| 28   78   128     29   79   129     30   80   130     31   81   131     32   82   132     33   83   133     34   84   134     35   85   135     36   86   136     37   87   137     38   88   138     39   89   139     40   90   140     41   91   141     42   92   142     43   93   143     44   94   144     45   95   145     46   96   146     47   97   147   |          | 20   | <u> </u>  |   |   |             |            |          | <del></del>  | -     | <b>—</b>   | 120      |                 | +                  |          |          | $\vdash$     | ⊢                  | $\dashv$ | $\vdash\vdash$       |
| 29   79   129     30   80   130     31   81   131     32   82   132     33   83   133     34   84   134     35   85   135     36   86   136     37   87   137     38   88   138     39   89   139     40   90   140     41   91   141     42   92   142     43   93   143     44   94   144     45   95   145     46   96   146     47   97   147   |          |  | L   | 4   |   |             |            | //       |  | _     |  | 127      |                 | ↓                  |          |          |              | $\dashv$           | $\dashv$ | Ш                    |
| 30 80   31 81   32 82   33 133   34 84   35 85   36 86   37 87   38 136   39 89   40 90   41 91   42 92   43 93   44 94   45 95   46 96   47 147  |          | 28   |   |   |   |             |            | 78       |  |       |  | 128      |                 | $oldsymbol{\perp}$ |          |          |              | Ш                  |          | ш                    |
| 30  |          | 29   |   |   |   |             |            | 79       |  |       | İ  | 129      |                 |                    |          |          |              | Ш                  |          |                      |
| 31 81   32 82   33 83   34 84   35 85   36 86   37 87   38 88   39 89   40 90   41 91   42 92   43 93   44 94   45 95   46 96   47 97   |          |  |   |   |   |             |            |          |  |       |  | 130      |                 | T                  |          |          |              | П                  |          |                      |
| 32 83   33 133   34 84   35 85   36 136   37 87   38 88   39 89   40 90   41 91   42 92   43 93   44 94   45 95   46 96   47 147  |          |  |   | +1  | <del>                                      </del> |             |            | 81       |  |       |  | 131      |                 | $\top$             |          |          |              |                    | $\neg$   | П                    |
| 33   83   133     34   84   134     35   85   135     36   86   136     37   87   137     38   88   138     39   89   139     40   90   140     41   91   141     42   92   142     43   93   143     44   94   144     45   95   145     46   96   146     47   97   147   | -        |  |   | +   | +++   |             |            | 82       | <del>-   -   -   -   -   -   -   -   -   -  </del> | -155  |  | 132      |                 | +                  | Н        |          | $\vdash$     | $\Box$             | $\dashv$ | $\sqcap$             |
| 34   84   134     35   85   135     36   86   136     37   87   137     38   88   138     39   89   139     40   90   140     41   91   141     42   92   142     43   93   143     44   94   144     45   95   145     46   96   146     47   97   147   | ļ        |  | $\vdash$  | <del>                                     </del>  | +++   |             |            | 02       | <del></del>  | -     | $\vdash$   | 102      |                 | +                  | Н        |          | ├─           | $\vdash$           | $\dashv$ | $\vdash\vdash\vdash$ |
| 35 85   36 86   37 87   38 88   39 89   40 90   41 91   42 92   43 93   44 94   45 95   46 96   47 97   |          |  | $\vdash \vdash$   | +++   |   |             |            | 03       | <del>                                     </del>   | -     |  | 100      | $\vdash$        | 4                  | $\vdash$ |          |              |                    | $\dashv$ | $\dashv$             |
| 36   86     37   87     38   88     39   89     40   90     41   91     42   92     43   93     44   94     45   95     46   96     47   97   | ļ        | 34   | $\sqcup \bot$   | ++  |   |             | $\vdash$   |          |  | -100  | ļ  |          | $\vdash$        |                    | Щ        | =        | $\vdash$     | $\dashv$           |          |                      |
| 37 87   38 88   39 89   40 90   41 91   42 92   43 93   44 94   45 95   46 96   47 97   |          | 35   |   | $\perp \perp \perp$                               |   |             |            | 85       |  | 4     |  | 135      | otacluster      | _                  | Ш        |          |              | $\sqcup$           |          | Ш                    |
| 37 87   38 88   39 89   40 90   41 91   42 92   43 93   44 94   45 95   46 96   47 97   |          | 36   |   |   |   |             |            |          |  |       |  | 136      |                 |                    |          |          |              | Ш                  |          |                      |
| 38 88   39 89   40 90   41 91   42 92   43 93   44 94   45 95   46 96   47 97   |          | 37   |   |   |   |             |            |          |  | 7     |  | 137      |                 |                    |          |          |              |                    |          |                      |
| 39 89   40 90   41 91   42 92   43 93   44 94   45 95   46 96   47 97   |          |  | $\vdash$  | 1-1-1   | <del>       </del>                                |             |            |          |  |       |  | 138      |                 | 1                  |          |          | П            | $\Box$             |          |                      |
| 40 90   41 91   42 92   43 93   44 94   45 95   46 96   47 97   |          |  | $\vdash$  | +++   | <del>                                     </del>  | 1           |            | 80       | <del> - - - - - -</del>                            |       |  | 130      | $\vdash$        | <del> </del>       | Н        | Н        |              | $\Box$             | $\neg$   | $\Box$               |
| 41 91   42 92   43 93   44 94   45 95   46 96   47 97   | -        |  | <del>  -</del>  | +   | +++-  |             | _          |          | ┝ <del>┈╎═╎═╎╌╎╶╎╶╎</del>                          | -     | <del>                                     </del> |          | +-              | +                  | $\vdash$ | $\vdash$ | $\vdash$     | -                  | $\dashv$ | $\vdash$             |
| 42 92   43 93   44 94   45 95   46 96   47 97   | <u> </u> |  | $\vdash \vdash$   | + + +-  |   | +           |            | 90       | ├ <del>─┼┈╎┈╎┈╎┈</del> ┼─┼                         | -     | <u> </u>   | 140      | $\vdash \vdash$ | +                  | Н        | Н        | $\vdash$     | $\vdash$           | $\dashv$ | $\vdash\vdash$       |
| 43 93   44 94   45 95   46 96   47 97   |          |  | $\vdash$  | +++   | +++   |             |            |          | ┝═╃═╀═╂═╂═╂═                                       | 4     | igsqcup  |          |                 | ╄                  |          | Ь.       | Щ            | ${igspace}$        | $\dashv$ | Ш                    |
| 44 94   45 95   46 96   47 97   | L        | 42   |   |   |   |             |            | 92       |  | 4     |  | 142      | $oxed{oxed}$    | _                  | Ш        |          | Щ            | Ш                  |          | Ш                    |
| 44 94   45 95   46 96   47 97   |          |  |   |   |   |             |            |          |  |       |  | 143      |                 |                    | Li       |          |              |                    |          |                      |
| 45 95   46 96   47 97   |          |  |   | 1   |   |             |            |          |  | T     |  | 144      |                 |                    |          |          |              | Π                  |          |                      |
| 46  |          |  |   |   |   |             |            |          | <del>                                     </del>   | 7     |  |          |                 | 1                  | П        |          |              | $\Box$             | $\neg$   | П                    |
| 47 97 147   |          | 16   | -   | +   | +++   |             |            | 96       | <del>             </del>                           | -     | $\vdash$   | 1/6      | - -             | +                  | $\vdash$ |          |              | $\vdash$           | $\neg$   |                      |
| 41  |          | 47   | ├-  |   | +++   | +           | ļ          | 07       | <del>╎╸╞╸╏┈╏╸╏╸╏╸┩╸┩╸</del> ┦╴                     | -     | <del>  </del>                                    | 147      |                 | +-                 | $\vdash$ | -        | -            | ⊢┼                 | $\dashv$ | $\vdash$             |
|   | <u> </u> |  | $\vdash$  | +++   | +++   |             | ļ          |          | <del></del>  | 400   | <u> </u>   | 147      | $\vdash \vdash$ | +                  | $\vdash$ | Н        | -            | $\vdash \vdash$    |          | $\vdash$             |
| 70   140   140  | L        | 48   | oxdot   | +   | +   |             |            | 98       | <del></del>  |       | L  | 148      | $\sqcup \bot$   | ╄-                 | $\vdash$ | Ш        | <u> </u>     | <del>     </del>   | _        | Ш                    |
| 49 99 149 149   |          | 49   | $oxed{oxed}$  | $\bot$ $\bot$ $\bot$                              |   |             |            |          |  | 4     |  | 149      |                 | 1_                 |          | Ш        | $oxed{oxed}$ | Ш                  |          | Ш                    |
| 50 100 150 150  |          | 50   | $oldsymbol{ol{ol{ol}}}}}}}}}}}}}}}}}$ |   |   |             |            | 100      |  |       |  | 150      |                 |                    |          |          |              | Ш                  |          |                      |